NORTH DAKOTA HIGHWAY PATROL POLICY MANUAL



SUBJECT	POLICY NUMBER
	9-1 Annex C
WEIGHT LIMITATIONS CHART	EFFECTIVE DATE
	11-14-13
APPLICABLE CALEA STANDARDS	RESCINDS
	9-1 Annex C
	DATED
	8-25-06

NORTH DAKOTA WEIGHT LIMITATIONS CHART

NORTH DAKOTA HIGHWAY PATROL - NDHP 921 (Rev. 08/06)

Computed to nearest foot by the weight formula in Section 39-12-05 and Section 39-12-05.3 of the North Dakota Century Code.

V = Maximum weight in pounds on any group of two or more axles.

L = Distance in feet between extremes of any group of two or more consecutive axles.

N = Number of axles in group under consideration.

Distance in feet between the extremes of any groups of 2 or more

Maximum Load in Pounds Carried on any Group of 2 or More Consecutive Axles

_	2 Axles 3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles
4	34,000						
5	34,000						
6	34,000						
7	34,000 34,000						
8	38,000 42,000						
9	39,000 43,000						
10	40,000* 43,500						
11	44,500						
12	45,000	50,000					
13	46,000	50,500					
14	46,500	51,500	57,000				
15	47,500	52,000	57,500				
16	48,000	52,500	58,000				
17	49,000	53,500	58,500				
18	49,500	54,000	59,500				
19	50,500	54,500	60,000				
20	51,000	55,500	60,500	66,000			
21	52,000	56,000	61,000	66,500			
22	52,500	56,500	62,000	67,000			
23	53,500	57,500	62,500	68,000			
24	54,000	58,000	63,000	68,500	74,000		
25	55,000	58,500	63,500	69,000	74,500		
26	55,500	59,500	64,500	69,500	75,000		
27	56,500	60,000	65,000	70,000	76,000		
28	57,000	60,500	65,500	71,000	76,500	82,000	
29	58,000	61,500	66,000	71,500	77,000	82,500	
30	58,500	62,000	67,000	72,000	77,500	83,000	
31	59,500	62,500	67,500	72,500	78,000	84,000	
32	60,000*	63,500	68,000	73,000	78,500	84,500	90,000
33		64,000	68,500	74,000	79,500	85,000	90,500
34		64,500	69,500	74,500	80,000	85,500	91,000
35		65,500	70,000	75,000	80,500	86,000	91,500
36	Two consecutive sets of tandem axles may	66,000	70,500	75,500	81,000	86,500	92,500
37	carry a gross load of 34,000 pounds each	66,500	71,000	76,000	81,500	87,000	93,000
38	provided the overall distance between the	_ 67,500_	72,000	77,000	82,000	87,500	93,500
39	first and last axles of such consecutive	68,000	72,500	77,500	83,000	88,500	94,000
40	sets of tandem axles is 36 feet or more.	68,500	73,000	78,000	83,500	89,000	94,500
41		69,500	73,500	78,500	84,000	89,500	95,000
42		70,000	74,500	79,000	84,500	90,000	95,500
43		70,500	75,000	80,000	85,000	90,500	96,000
44		71,500	75,500 76,000	80,500	85,500	91,000	97,000 97,500
45		72,000		81,000	86,500	91,500	
46 47		72,500	77,000 77,600	81,500 82,000	87,000 87,500	92,500 93,000	98,000 98,500
47 48		73,500 74,000	77,500 78,000	82,000	87,500 88,000	93,500	99,000
48 49		74,500	78,500 78,500	83,500	88,500	94,000	99,500
50		75,500	79,500 79,500	84,000	89,000	94,500	100,000
51		76,000	80,000	84,500	90,000	95,000	100,500
52		76,500	80,500	4 85,000 85,000	90,500	95,500	100,500
53		77,500	81,000	86,000	91,000	96,500	102,000
53 54		78,000	82,000	86,500	91,500	97,000	102,500
55		78,500	82,500	87,000	92,000	97,500	103,000
56	Gross weight limit on interstate. Gross	79,500	83,000	87,500	92,500	98,000	103,500
57 57	weight limit on county and other local	80,000*	83,500	88,000	93,500	98,500	104,000
58	highways unless designated for more.	55,555	4.500 84.500	89,000	94,000	99,000	104,500
59	gyo amooo acagnatee ta more.		85,000	89,500	94,500	99,500	105,000
60			85,500	90,000	95,000	100,500	105,500*
61	· · · · · · · · · · · · · · · · · · ·		86,000	90,500	95,500	101,000	
62			87,000	91,000	96,000	101,500	
63			87,500	92,000	97,000	102,000	
64			88,000	92,500	97,500	102,500	
65			88,500	93,000	98,000	103,000	

Distance in feet between

the extremes of any

85

2 Axles 3 Axles 5 5 Axles 6 Axles 7 Axles 8 Axles 9 Axles 66 89,500 93,500 98,500 103,500 103,500 67 90,000 94,000 99,000 104,500 68 90,500 95,500 99,500 105,000 105,500* 69 91,000 96,500 101,000 105,500* 69 92,000 96,500 101,000 101,000 70 92,000 96,500 101,500 70 92,500 96,500 101,500 72 93,500 98,500 102,500 73 93,500 98,500 102,500 74 94,500 98,500 103,000 75 95,500 99,500 104,000 76 95,500 99,500 104,000 76 96,000 99,500 104,500 77 96,000 90,500 104,500 78 97,500 101,500 105,500* 79 97,500 101,500 101,500 80 98,500 102,500 81 98,500 102,500 82 99,500 103,000 83 98,500 102,500 84 99,500 104,500 84 99,500	groups of 2 or more consecutive axles	maximum zeas in traines sum of single of zero more senses and reads							
67 90,000 94,000 99,000 104,500 68 90,500 95,000 105,000 69 91,000 95,500 100,500 70 92,000 96,000 101,000 71 92,500 96,500 101,500 72 93,000 97,000 102,000 73 93,500 98,000 102,500 74 94,500 98,500 103,000 75 95,500 99,000 104,000 76 95,500 99,500 104,500 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000		2 Axles	3 Axles	4 Axles	5 Axles	6 Axles	7 Axles	8 Axles	9 Axles
68 90,500 95,000 99,500 105,000 69 91,000 95,500 100,500 105,500* 70 92,000 96,000 101,000 71 92,500 96,500 101,500 72 93,000 97,000 102,000 73 93,500 98,500 102,500 74 94,500 98,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	66				89,500	93,500	98,500	103,500	
69 91,000 95,500 100,500 105,500* 70 92,000 96,000 101,000 71 92,500 96,500 101,500 72 93,000 97,000 102,000 73 93,500 98,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	67				90,000	94,000	99,000	104,500	
69 91,000 95,500 100,500 105,500* 70 92,000 96,000 101,000 71 92,500 96,500 101,500 72 93,000 97,000 102,000 73 93,500 98,000 102,500 74 94,500 98,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,500 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	68				90,500	95,000	99,500	105,000	
71 92,500 96,500 101,500 72 93,000 97,000 102,000 73 93,500 98,000 102,500 74 94,500 98,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 101,000 105,000 78 97,500 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 99,500 103,000 83 99,500 103,000	69				91,000	95,500	100,500	105,500*	
72 93,000 97,000 102,000 73 93,500 98,000 102,500 74 94,500 98,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,000 82 99,500 103,000 83 100,000* 104,000	70				92,000	96,000	101,000		
72 93,000 97,000 102,000 73 93,500 98,000 102,500 74 94,500 98,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	71				92,500	96,500	101,500		
73 93,500 98,000 102,500 74 94,500 99,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000					93,000	97,000	102,000		
74 94,500 98,500 103,000 75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	73				93,500	98,000	102,500		
75 95,000 99,000 104,000 76 95,500 99,500 104,500 77 96,000 100,000 105,000 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	74				94,500	98,500	103,000		
77 96,000 100,000 105,000 78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	75				95,000	99,000	104,000		
77	76				95,500	99,500	104,500		
78 97,000 101,000 105,500* 79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000					96,000	100,000	105,000		
79 97,500 101,500 80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	78				97,000	101,000	105,500*		
80 98,000 102,000 81 98,500 102,500 82 99,500 103,000 83 100,000* 104,000	79				97,500	101,500			
82 99,500 103,000 83 100,000* 104,000	80				98,000	102,000			
82 99,500 103,000 83 100,000* 104,000	81				98,500	102,500			
83 100,000° 104,000					99,500	103,000			
84 104,500 *Maximum Gross Weight					100,000*	104,000			
	84					104,500	*Maximun	n Gross Weight	

Maximum Load in Pounds Carried on any Group of 2 or More Consecutive Axles

105,000 105,500

Note: On highways other than the Interstate System, only the exterior bridge measurement shall be used to determine the gross vehicle weight of a vehicle or combination of vehicles.

NORTH DAKOTA AXLE WEIGHT LIMITATIONS

No single axle shall carry a gross weight in excess of 20,000 pounds. Axles spaced 40 inches or less apart are considered one axle. Axles spaced eight (8) feet apart or over are considered as individual axles. The gross weight of two individual axles may be restricted by the weight formula except that on highways other than the interstate, two axles spaced eight (8) feet apart or more may have a combined gross weight not to exceed 40,000 pounds. Spacing between axles shall be measured from axle center to axle center.

Axles spaced over 40 inches apart and less than eight (8) feet apart shall not carry a gross weight in excess of 19,000 pounds per axle. The gross weight on a tandem axle shall not exceed 34,000 pounds. The gross weight of three or more axles in a grouping is determined by the measurement between the extreme axle centers except that on highways other than the interstate, groupings of three or more axles may have a gross weight not to exceed 48,000 pounds.

The weight per inch width of tire shall not exceed 550 pounds. Metric tire sizes are converted to inches by dividing millimeters by 25.4. The width of tire for solid tires shall be the rim width. For pneumatic tires the width of tire shall be the manufacturer's width. The weight in pounds on any one wheel shall not exceed one-half the allowable axle weight. Dual tires are considered one (1) wheel.

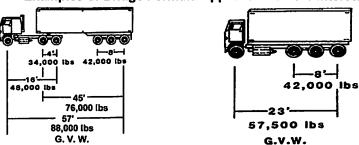
Tire Width	Single Axle (2 Tires)	Single Axle (4 Tires)	Tandem Axle (4 Tires)	Tandem Axle (8 Tires)	Triple Axle (6 Tires)	Triple Axle (12 Tires)
7:00	7,700	15,400	15,400	30,800	23,100	
7:50	8,250	16,500	16,500	33,000	24,750	
8:00	8,800	17,600	17,600	34,000	26,400	
8:25	9,075	18,150	18,150	34,000	27,225	ď
9:00	9,900	19,800	19,800	34,000	29,700	iined by Formula
10:00	11,000	20,000	22,000	34,000	33,000	β.E.
11:00	12,100	20,000	24,200	34,000	a	ine Fo
12:00	13,200	20,000	26,400	34,000	ρ P	E۲
13:00	14,300	20,000	28,600	34,000	rined by Formula	Determi Weight
14:00	15,400	20,000	30,800	34,000	Fo	کّٽ
15:00	16,500	20,000	33,000	34,000	E	
16:50	18,150	20,000	34,000	34,000	ete igi	
17:50	19,250	20,000	34,000	34,000	Determined Weight Form	
18:00	19,800	20,000	34,000	34,000		

NOTE: Axle weights may be reduced during the spring breakup season or on otherwise posted highways. Axle weights may be reduced by Bridge Load Limitations Map.

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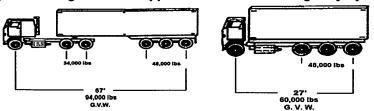
Examples of Bridge Formula Application on the Interstate System



Note: On the Interstate System, the interior and exterior bridge measurement shall be used to determine the gross vehicle weight of a vehicle or combination of vehicles.

Maximum legal gross vehicle weight on the interstate system is 80,000 pounds without a permit.

Examples of Bridge Formula Application on the State Highway System



Note: On highways other than the Interstate System, only the exterior bridge measurement shall be used to determine the gross vehicle weight of a vehicle or combination of vehicles.

Groupings of three or more axles may have a gross weight not to exceed 48,000 pounds.

See Highway Patrol for additional information on 4-axle straight trucks.

Examples of Metric Tire Conversion

Metric Tire Size	Tire Width in Inches	Metric Tire Size	Tire Width in Inches
245/75R22.5	9.6 inches	315/75r22.5	12.4 inches
255/70R22.5	10.0 inches	385/65R22.5	15.1 inches
265/75R22.5	10.4 inches	425/65R22.5	16.7 inches
275/80R22.5	10.8 inches	445/65R22.5	17.5 inches
285/75R24.5	11.2 inches	455/65R22.5	17.9 inches
295/75R22.5	11.6 inches	465/65R22.5	18.3 inches

Tire Size and Dimensional Definitions

13/80R20

13 =

Tire width (inches)
Ratio of tire width to tire height 80 =

R= Radial

Rim diameter (inches) 20 =

295/75R22.5

295 = Tire width (millimeters)

75 = Ratio of tire width to tire height

Radial

22.5 = Rim diameter (inches)

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